



# Series Mode Technology

## A Breakthrough in Surge Protection

In today's work environment, the need for surge protection has become an essential fact of life. Your electronic systems, components and machinery all use integrated circuits that are vulnerable to performance disruptions or costly failure due to surge related events.

Two basic types of surges affect your equipment. They are officially classified as **Type 1 and Type 2.**

- **Type 1** surges, commonly caused by equipment such as copiers or appliances cycling on and off, affect equipment many times during the course of the day. Over time, Type 1 surges will cause circuitry - as well as surge protectors without Series Mode technology - to degrade and fail.

- **Type 2** surge events typically occur during a lightning storm.

Until recently manufacturers tried to protect your equipment by diverting the surge energy to the ground line of the electrical circuit in the building. This has proven to be dangerous for a number of reasons. But before New Frontier's technology breakthrough, it was the accepted and routinely installed method. Now there's a better way.

Surge-X offers dependable protection for both Type 1 and Type 2 surges. Its patented Series Mode technology is the only type of protection to qualify for the U.S. Government's stringent A-1-1 Classification. It is the safest, most effective and most reliable known surge suppressor for any type of office or systems application.

## For Your Computer

Whether your computer is used in the home or workplace, it is susceptible to daily surge events that could disrupt or destroy it. Something as common as the heater or air conditioner turning on and off can eventually take its toll on the integrated circuitry inside. Surge-X not only protects against these every-day surge events, but against catastrophic surges as well. Other surge protectors try to solve this problem by sending surges to the ground wire of your electrical system. This can damage unprotected equipment in the same circuit. And what's worse, this type of surge protector only works for a finite number of surges. Its circuitry decays with every surge event, ultimately leaving it useless - and your valuable equipment unprotected. Vastly superior to conventional surge protection devices of the past, Surge-X patented Series Mode technology does not decay with use. And it keeps your ground wire free from contamination. This is especially important in digital networks that use the ground as a reference.

## For Office Equipment

Surge-X provides round-the-clock protection for all your office and communications equipment. As mentioned, something as seemingly harmless as an electric letter opener creates small Type 1 surges. And just like computers, electronic office products fall victim to surge related events. For example, the key serve unit (KSU) in your office phone system can lose its memory from



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lightning discharges. Voice mail systems fail in the same way. Surge-X will protect you from surge-related events and help sustain the normal operation and longevity of your equipment.

## For Audio-Visual Equipment

All sophisticated audio-visual products rely heavily on sensitive integrated circuitry for optimal performance. They're vulnerable. And other electro-mechanical components can be affected too. Take video projectors, for example. Bulb failures are a common result of surge events. Surge-X protection from Type 1 and Type 2 surges will help extend the life of the bulb, protecting it - and your next presentation - from catastrophic failure.

Many government offices and major corporations have switched to Surge-X after realizing that there is no better way to protect hundreds of thousands of dollars worth of audio-visual equipment. By saving replacement equipment costs, procurement times and the associated hassle, Surge-X just makes sense.



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